

Form PTO-1449 (REV. 8-83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 23438.00045		APPLICATION NO. 10/773,101	
<b>INFORMATION DISCLOSURE CITATION</b>				<b>APPLICANT</b> Paul V. Cooper			
(Use several sheets if necessary)				FILING DATE February 4, 2004		GROUP UNKNOWN	
				SYSTEM FOR RELEASING GAS INTO MOLTEN METAL			
<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		1,100,475	06-16-14	Franckaerts			
/		1,331,997	02-24-1920	Neal			
/		1,454,967	05-15-1923	Gill			
/		1,518,501	12-09-1924	Gill			
/		1,522,765	01-13-1925	Wilke			
/		1,526,851	02-17-1925	Hall			
/		1,669,668	05-15-1928	Marshall			
/SK/		1,673,594	06-12-1928	Schmidt			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
/SK/		0665378A1	02-08-95	EP			Yes Abstract
/		1,185,314	03-25-1970	UK			
/		1,800,446	12-11-1969	DE			Yes Abstract
/		GB 2,217,784 A	03-20-1989	UK			
/SK/		392,268	09-1965	Switzerland			Yes Abstract
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<b>EXAMINER</b> <i>/Scott Kastler/</i>				<b>DATE CONSIDERED</b> 08/20/2007			
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**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		1,717,969	06-18-1929	Goodner			
		1,896,201	02-07-1933	Sterner-Rainer			
		2,038,221	04-21-1936	Kagi			
		209,219	10-22-1878	Bookwalter			
		2,280,979	04-28-1942	Rocke			
		2,290,961	07-28-1942	Heuer			
		2,488,447	11-15-1949	Tangen et al			
/SK/		251,104	12-20-1881	Finch			

**FOREIGN PATENT DOCUMENTS**

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
/SK/		416,401	06-1974	Soviet Union			Yes	Abstract
		58-048796	03-1983	Japan			Yes	Abstract
		63-104773	5-1998	Japan			Yes	Abstract
		683,469	03-31-1964	Canada				
/SK/		773,312	10-1980	Soviet Union			Yes	Abstract

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


<b>EXAMINER</b> <i>/Scott Kastler/</i>	<b>DATE CONSIDERED</b> <i>08/20/2007</i>
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		2,515,478	07-18-1950	Tooley et al.			
		2,528,210	10-31-1950	Stewart			
		2,566,892	09-04-1951	Jacobs			
		2,677,609	05-04-1954	Moore et al.			
		2,698,583	01-04-1955	House et al.			
		2,787,873	04-09-1957	Hadley			
		2,808,782	10-08-1957	Thompson et al.			
/SK/		2,821,472	01-28-1958	Peterson et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
/SK/		90,756	01-1958	Norway			Yes Abstract
/SK/		942,648	11-27-1963	U.K.			—
/SK/		WO 98/25031	06-11-1998	WO			—
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		2,832,292	04-29-1958	Edwards			
		2,865,618	12-23-1958	Abell			
		2,901,677	08-25-1959	Chessman et al.			
		2,948,524	08-09-1960	Sweeney et al.			
		2,978,885	04-11-1961	Davison			
		2,984,524	05-16-1961	Franzen			
		2,987,885	06-13-1961	Hodge			
/SK/		3,010,402	11-28-1961	King			
<b>FOREIGN PATENT DOCUMENTS</b>							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
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				<b>U. S. PATENT DOCUMENTS</b>			
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		3,048,384	08-07-1962	Sweeney et al.			
		3,070,393	12-25-1962	Silverberg et al.			
		3,092,030	06-04-1963	Wunder			
		3,227,547	01-04-1966	Szekely			
		3,244,109	04-05-1966	Barske			
		3,251,676	05-17-1966	Johnson			
		3,255,702	06-14-1966	Gehrm			
/SK/		3,272,619	09-13-1966	Sweeney et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		3,289,473	12-06-1966	Louda			
		3,291,473	12-13-1966	Sweeney et al.			
		3,400,923	09-10-1968	Howie et al.			
		3,417,929	12-24-1968	Secrest et al.			
		3,459,133	08-05-1969	Scheffler			
		3,459,346	08-05-1969	Tinnes			
		3,487,805	01-06-1970	Satterthwaite			
/SK/		3,512,762	05-19-1970	Umbricht			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
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/SK/		3,512,788	05-19-1970	Kilbane			
		3,575,525	04-20-1971	Fox et al.			
		3,618,917	11-09-1971	Fredrikson			
		364,804	06-14-1887	Cole			
		3,650,730	03-21-1972	Derham et al.			
		3,689,048	09-05-1972	Foulard, et al.			
		3,715,112	02-06-1973	Carbonnel			
/SK/		3,743,500	07-03-1973	Foulard et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		3,743,263	07-03-1973	Szekely			
		3,753,690	08-21-1973	Emley et al.			
		3,759,635	09-18-1973	Carter et al.			
		3,767,382	10-23-1973	Bruno et al.			
		3,776,660	12-04-1973	Anderson et al.			
		3,785,632	01-15-1974	Kraemer, et al.			
		3,814,400	06-04-1974	Seki			
/SK/		3,824,042	07-16-1974	Barnes et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		3,836,280	09-17-1974	Koch			
		3,839,019	10-01-1974	Bruno et al.			
		3,871,872	03-18-1975	Downing et al.			
		3,873,305	03-25-1975	Claxton et al.			
		3,886,992	06-03-1975	Maas et al.			
		3,915,694	10-28-1975	Ando			
		3,954,134	05-04-1976	Maas et al.			
/SK/		3,961,778	06-08-1976	Carbonnel et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
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						YES	NO
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		3,966,456	06-29-1976	Ellenbaum et al.			
		3,972,709	08-03-1976	Chin et al.			
		3,984,234	10-05-1976	Claxton et al.			
		3,985,000	10-12-1976	Hartz			
		3,997,336	12-14-1976	van Linden et al.			
		4,003,560	01-18-1977	Carbonnel			
		4,018,598	04-19-1977	Markus			
/SK/		4,052,199	10-04-1977	Mangalick			
<b>FOREIGN PATENT DOCUMENTS</b>							
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/SK/		4,055,390	10-25-1977	Young			
		4,068,965	01-17-1978	Lichti			
		4,091,970	05-30-1978	Kimiyama et al.			
		4,119,141	10-10-1978	Thut et al.			
		4,126,360	11-21-1978	Miller et al.			
		4,128,415	12-05-1978	van Linden et al.			
		4,144,562	03-13-1979	Cooper			
/SK/		4,169,584	10-02-1979	Mangalick			

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/SK/		4,192,011	03-04-1980	Cooper et al.			
		4,213,091	07-15-1980	Cooper			
		4,213,176	07-15-1980	Cooper			
		4,219,882	08-26-1980	Cooper et al.			
		4,244,423	01-13-1981	Thut et al.			
		4,286,985	09-01-1981	van Linden et al.			
		4,322,245	03-30-1982	Claxton			
/SK/		4,347,041	08-31-1982	Cooper			

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/SK/		4,351,514	09-28-1982	Koch			
		4,360,314	11-23-1982	Pennell			
		4,370,096	01-25-1983	Church			
		4,372,541	02-08-1983	Bocourt et al.			
		4,375,937	03-08-1983	Cooper			
		4,392,888	07-12-1983	Eckert et al.			
		4,410,299	10-18-1983	Shimoyama			
/SK/		4,456,424	06-26-1984	Araoka			

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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		4,456,974	06-26-1984	Cooper			
		4,470,846	09-11-1984	Dube			
		4,489,475	12-25-1984	Struttmann			
		4,504,392	03-12-1985	Groteke			
		4,537,624	08-27-1985	Tenhover et al.			
		4,537,625	08-27-1985	Tenhover et al.			
		4,556,419	12-03-1985	Otsuka et al.			
/SK/		4,557,766	12-10-1985	Tenhover et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
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							YES
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/SK/		4,586,845	05-06-1986	Morris			
		4,593,597	06-10-1986	Albrecht et al.			
		4,598,899	07-08-1986	Cooper			
		4,600,222	07-15-1986	Appling			
		4,609,442	09-02-1986	Tenhover et al.			
		4,611,790	09-16-1986	Otsuka et al.			
		4,634,105	01-06-1987	Withers et al.			
/SK/		4,640,666	02-03-1987	Sodergard			

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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


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/Scott Kastler/	08/20/2007

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Form PTO-1449 (REV. 8-83)		U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 23438.00045		APPLICATION NO. 10/773,101	
<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)				APPLICANT Paul V. Cooper			
				FILING DATE February 4, 2004		GROUP UNKNOWN	
				SYSTEM FOR RELEASING GAS INTO MOLTEN METAL			
<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		4,651,806	03-24-1987	Allen et al.			
		4,696,703	09-29-1987	Henderson et al.			
		4,701,226	10-20-1987	Henderson et al.			
		4,714,371	12-22-1987	Cuse			
		4,717,540	01-05-1988	McRae et al.			
		4,743,428	05-10-1988	McRae et al.			
		4,747,583	05-31-1988	Gordon et al.			
/SK/		4,770,701	09-13-1988	Henderson et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<b>EXAMINER</b> /Scott Kastler/		<b>DATE CONSIDERED</b> 08/20/2007					
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		FILING DATE February 4, 2004		GROUP UNKNOWN			
		SYSTEM FOR RELEASING GAS INTO MOLTEN METAL					
		<b>U. S. PATENT DOCUMENTS</b>					
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		4,786,230	11-22-1988	Thut			
		4,802,656	02-07-1989	Hudault et al.			
		4,804,168	02-14-1989	Otsuka et al.			
		4,810,314	03-07-1989	Henderson et al.			
		4,834,573	05-30-1989	Asano et al.			
		4,842,227	06-27-1989	Harrington et al.			
		4,844,425	07-04-1989	Piras et al.			
/SK/		4,851,296	07-25-1989	Tenhover et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
							NO
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<b>EXAMINER</b> /Scott Kastler/				<b>DATE CONSIDERED</b> 08/20/2007			
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<b>U. S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE	
/SK/		4,859,413	08-22-1989	Harris et al.				
		4,867,638	09-19-1989	Handtmann et al.				
		4,884,786	12-05-1989	Gillespie				
		4,898,367	02-06-1990	Cooper				
		4,923,770	05-08-1990	Grasselli et al.				
		4,930,986	06-05-1990	Cooper				
		4,931,091	06-05-1990	Waite et al.				
/SK/		4,940,214	07-10-1990	Gillespie				
<b>FOREIGN PATENT DOCUMENTS</b>								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		4,940,384	07-10-1990	Amra et al.			
		4,954,167	09-04-1990	Cooper			
		4,973,433	11-27-1990	Gilbert et al.			
		4,989,736	02-05-1991	Andersson et al.			
		5,006,232	04-09-1991	Lidgitt et al.			
		5,028,211	07-02-1991	Mordue et al.			
		5,049,841	09-17-1991	Cooper et al.			
/SK/		506,572	10-10-1893	Wagener			
<b>FOREIGN PATENT DOCUMENTS</b>							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,078,572	01-07-1992	Amra et al.			
		5,088,893	12-18-1992	Gilbert et al.			
		5,092,821	03-03-1992	Gilbert et al.			
		5,098,134	03-24-1992	Monckton			
		5,099,554	03-31-1992	Cooper			
		5,131,632	07-21-1992	Olson			
		5,143,357	09-01-1992	Gilbert et al.			
/SK/		5,145,322	09-08-1992	Senior, Jr. et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
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		<b>U. S. PATENT DOCUMENTS</b>					
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,152,631	10-06-1992	Bauer			
		5,158,440	10-27-1992	Cooper et al.			
		5,162,858	11-10-1992	Shoji et al.			
		5,165,858	11-24-1992	Gilbert et al.			
		5,172,458	12-22-1992	Cooper			
		5,177,304	01-05-1993	Nagel			
		5,191,154	03-02-1993	Nagel			
/SK/		5,192,193	03-09-1993	Cooper et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
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		<b>U. S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE	
/SK/		5,202,100	04-13-1993	Nagel et al.				
		5,203,681	04-20-1993	Cooper				
		5,209,641	05-11-1993	Hoglund et al.				
		5,215,448	06-01-1993	Cooper				
		5,268,020	12-07-1993	Claxton				
		5,286,163	02-15-1994	Amra et al.				
		5,298,233	03-29-1994	Nagel				
/SK/		5,301,620	04-12-1994	Nagel et al.				
<b>FOREIGN PATENT DOCUMENTS</b>								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,308,045	05-03-1994	Cooper			
		5,310,412	05-10-1994	Gilbert et al.			
		5,318,360	06-07-1994	Langer et al.			
		5,322,547	06-21-1994	Nagel et al.			
		5,324,341	06-28-1994	Nagel et al.			
		5,330,328	07-19-1994	Cooper			
		5,354,940	10-11-1994	Nagel			
/SK/		5,358,549	10-25-1994	Nagel et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
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		<b>U. S. PATENT DOCUMENTS</b>					
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,358,697	10-25-1994	Nagel			
		5,364,078	11-15-1994	Pelton			
		5,369,063	11-29-1994	Gee et al.			
		5,383,651	01-24-1995	Blasen et al.			
		5,388,633	02-14-1995	Mercer II et al.			
		5,395,405	03-07-1995	Nagel et al.			
		5,399,074	03-21-1995	Nose et al.			
/SK/		5,407,294	04-18-1995	Giannini			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
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		SYSTEM FOR RELEASING GAS INTO MOLTEN METAL	

**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,425,410	06-20-1995	Reynolds			
/SK/		5,431,551	07-11-1995	Aquino et al.			
/SK/		5,435,982	07-25-1995	Wilkinson			
/SK/		5,436,210	07-25-1995	Wilkinson et al.			
/SK/		5,443,572	08-22-1995	Wilkinson et al.			
/SK/		5,454,423	10-03-1995	Tsuchida et al.			
/SK/		5,468,280	11-21-1995	Areaux			
/SK/		5,470,201	11-28-1995	Gilbert et al.			

**FOREIGN PATENT DOCUMENTS**

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		<b>U. S. PATENT DOCUMENTS</b>					
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,484,265	01-16-1996	Horvath et al.			
		5,489,734	02-06-1996	Nagel et al.			
		5,491,279	02-13-1996	Robert et al.			
		5,495,746	03-05-1996	Sigworth			
		5,505,143	04-09-1996	Nagel			
		5,509,791	04-23-1996	Turner			
		5,537,940	07-23-1996	Nagel et al.			
/SK/		5,543,558	08-06-1996	Nagel et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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							NO
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,555,822	09-17-1996	Loewen et al.			
		5,558,501	09-24-1996	Wang et al.			
		5,558,505	08-24-1996	Mordue et al.			
		5,571,486	11-05-1996	Robert et al.			
		5,585,532	12-17-1996	Nagel			
		5,586,863	12-24-1996	Gilbert et al.			
		5,597,289	01-28-1997	Thut			
/SK/		5,613,245	03-18-1997	Robert			
<b>FOREIGN PATENT DOCUMENTS</b>							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
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		<b>U. S. PATENT DOCUMENTS</b>					
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,622,481	04-22-1997	Thut			
		5,629,464	05-13-1997	Bach et al.			
		5,634,770	06-03-1997	Gilbert et al.			
		5,640,706	06-17-1997	Nagel et al.			
		5,640,707	06-17-1997	Nagel et al.			
		5,640,709	06-17-1997	Nagel et al.			
		5,655,849	08-12-1997	McEwan et al.			
/SK/		5,662,725	09-02-1997	Cooper			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,676,520	10-14-1997	Thut			
		5,678,244	10-14-1997	Shaw et al.			
		5,678,807	10-21-1997	Cooper			
		5,679,132	10-21-1997	Rauenzahn et al.			
		5,685,701	11-11-1997	Chandler et al.			
		5,690,888	11-25-1997	Robert			
		5,695,732	09-09-1997	Sparks et al.			
/SK/		5,716,195	02-10-1998	Thut			
<b>FOREIGN PATENT DOCUMENTS</b>							
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/SK/		5,717,149	02-10-1998	Nagel et al.			
		5,718,416	02-17-1998	Flisakowski et al.			
		5,735,668	04-07-1998	Klien			
		5,735,935	04-07-1998	Areaux			
		5,741,422	04-21-1998	Eichenmiller et al.			
		5,744,117	04-28-1998	Wilkinson et al.			
		5,745,861	04-28-1998	Bell et al.			
/SK/		5,755,847	05-26-1998	Quayle			

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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


EXAMINER <i>/Scott Kastler/</i>	DATE CONSIDERED 08/20/2007
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Form PTO-1449 (REV. 8-83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 23438.00045		APPLICATION NO. 10/773,101		
INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)				APPLICANT Paul V. Cooper				
				FILING DATE February 4, 2004		GROUP UNKNOWN		
				SYSTEM FOR RELEASING GAS INTO MOLTEN METAL				
<b>U. S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE	
/SK/		5,772,324	06-30-1998	Falk				
		5,776,420	07-07-1998	Nagel				
		5,785,494	07-28-1998	Vild et al.				
		5,805,067	09-08-1989	Bradley et al.				
		5,810,311	09-22-1998	Davison et al.				
		5,842,832	12-01-1998	Thut				
		585,188	06-29-1897	Davis				
/SK/		5,858,059	01-12-1999	Abramovich et al.				
<b>FOREIGN PATENT DOCUMENTS</b>								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
EXAMINER				DATE CONSIDERED				
/Scott Kastler/				08/20/2007				
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				SYSTEM FOR RELEASING GAS INTO MOLTEN METAL			
<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,864,316	01-26-1999	Bradley et al.			
		5,866,095	02-02-1999	McGeever et al.			
		5,875,385	02-23-1999	Stephenson et al.			
		5,935,528	08-10-1999	Stephenson et al.			
		5,944,496	08-31-1999	Cooper			
		5,947,705	09-07-1999	Mordue et al.			
		5,949,369	09-07-1999	Bradley et al.			
/SK/		5,951,243	09-14-1999	Cooper			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES      NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<b>EXAMINER</b>  /Scott Kastler/				<b>DATE CONSIDERED</b>  08/20/2007			
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		5,993,726	11-30-1999	Huang			
		5,993,728	11-30-1999	Vild			
		5,995,041	11-30-1999	Bradley et al.			
		6,024,286	02-15-2000	Bradley et al.			
		6,027,685	02-22-2000	Cooper			
		6,036,745	03-14-2000	Gilbert et al.			
		6,074,455	06-13-2000	van Linden et al.			
/SK/		6,093,000	07-25-2000	Cooper			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
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		<b>U. S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE	
/SK/		6,096,109	08-01-2000	Nagel et al.				
		6,019,576	02-01-2000	Thut				
		6,113,154	09-05-2000	Thut				
		6,123,523	09-26-2000	Cooper				
		6,152,691	11-28-2000	Thut				
		6,187,096	02-13-2001	Thut				
		6,217,823	04-17-2001	Vild et al.				
/SK/		6,231,639	05-15-2001	Eichenmiller et al.				
<b>FOREIGN PATENT DOCUMENTS</b>								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	
							NO	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		6,243,366	06-05-2001	Bradley et al.			
		6,250,881	06-26-2001	Mordue et al.			
		6,254,340	07-03-2001	Vild et al.			
		6,270,717	08-07-2001	Tremblay et al.			
		6,280,157	08-28-2001	Cooper			
		6,298,759	09-25-2001	Thut			
		6,303,074	10-16-2001	Cooper			
/SK/		6,345,964	02-12-2002	Cooper			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES      NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		6,358,467	03-19-2002	Mordue			
		6,398,525	06-04-2002	Cooper			
		6,439,860	08-27-2002	Greer			
		6,451,247	09-17-2002	Mordue et al.			
		6,457,950	10-01-2002	Cooper et al.			
		6,464,458	10-15-2002	Vild et al.			
		6,495,948	12-17-2002	Garrett, III			
/SK/		6,497,559	12-24-2002	Grant			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		6,524,066	02-25-2003	Thut			
		6,533,535	03-18-2003	Thut			
		6,551,060	04-22-2003	Mordue et al.			
		6,648,026	11-18-2003	Look et al.			
		6,679,936	01-20-2004	Quackenbush			
		6,689,310	02-10-2004	Cooper			
		6,695,510	02-24-2004	Look et al.			
/SK/		6,709,234	03-23-2004	Gilbert et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		6,716,147	04-06-2004	Hinkle et al.			
		6,723,276	04-20-2004	Cooper			
		6,805,834	10-19-2004	Thut			
		6,843,640	01-18-2005	Mordue et al.			
		6,848,497	02-01-2005	Sale et al.			
		6,869,271	05-24-2005	Uchida et al.			
		6,869,564	03-22-2005	Gilbert et al.			
/SK/		6,881,030	04-19-2005	Thut			
<b>FOREIGN PATENT DOCUMENTS</b>							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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(Use several sheets if necessary)		FILING DATE February 4, 2004	GROUP UNKNOWN
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**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		6,887,424	05-03-2005	Ohno et al.			
		6,887,425	05-03-2005	Mordue et al.			
		898,499	09-15-1908	O'Donnell			
		20010000465	04-26-2001	Thut			
		20010012758	08-09-2001	Bradley et al.			
		20020041788	04-11-2002	Look et al.			
		20020102159	08-01-2002	Thut			
/SK/		20020146313	10-10-2002	Thut			

**FOREIGN PATENT DOCUMENTS**

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							YES	NO

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<b>INFORMATION DISCLOSURE CITATION</b>		APPLICANT Paul V. Cooper	
(Use several sheets if necessary)		FILING DATE February 4, 2004	GROUP UNKNOWN
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**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		20020187947	12-12-2002	Jarai et al.			
		20030059302	03-27-2003	Mordue et al.			
		20030075844	04-24-2003	Mordue et al.			
		20030151176	08-14-2003	Ohno et al.			
		20030185679	10-02-2003	Mordue et al.			
		20040007284	01-15-2004	Look et al.			
		20040022632	02-05-2004	Thut			
/SK/		20040056395	03-25-2004	Thut			

**FOREIGN PATENT DOCUMENTS**

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							YES	NO

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**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		20040076533	04-22-2004	Cooper			
		20040084172	05-06-2004	Vincent et al.			
		20040115079	06-17-2004	Cooper			
		20040199435	10-07-2004	Abrams et al.			
		20040123970	07-01-2004	Neff			
		20040215204	10-28-2004	Davison et al.			
		20040262825	12-30-2004	Cooper			
/SK/		20050013713	01-20-2005	Cooper			

**FOREIGN PATENT DOCUMENTS**

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							YES NO

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<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)		APPLICANT Paul V. Cooper		
		FILING DATE February 4, 2004	GROUP UNKNOWN	
		SYSTEM FOR RELEASING GAS INTO MOLTEN METAL		

**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
/SK/		20050013714	01-20-2005	Cooper			
		20050013715	01-20-2005	Cooper			
		20050053499	03-10-2005	Cooper			
		20050077730	04-14-2005	Thut			
		20050081607	04-21-2005	Patel et al.			
/SK/		20050116398	06-02-2005	Tremblay			

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